## **Somerville Scientists Coverage** Year group Materials **Plants** Wangari Maathai was a Charles Macintosh Scottish chemist and Wangari Maathai Kenyan environmentalist who 1 (1766-1843) Inventor of (1940-2011)began a movement to plant waterproof fabric. trees and re-forest her country. The mackintosh She was the first African raincoat is named woman to win a Nobel Peace after him. Humans Materials **Plants** John Loudon McAdam was a Dr Ernest Madu is a John Loudon Dr Ernest Madu David Douglas was a Scottish David 2 McAdam Scottish engineer who botanist, best known as the Douglas (born 1960) cardiologist. His work (1756-1836) modernised the way we (1799-1834) namesake of the Douglas-fir. focuses on providing build roads. He worked as a gardener, and affordable healthcare in He was the inventor of explored the Scottish low-resource nations. tarmacadam road surfacing -Highlands, North America, and commonly called tarmac. Hawaii. Animals including humans Rocks Forces and magnets Mary Anning was an Wilhelm Conrad | Wilhelm Rontgen was a Mary Anning Michael Faraday Michael Faraday was an Professor 3 (1799-1847)





English palaeontlogist and fossil collecter. She became known around the world for important finds she made in Jurassic fossil beds in Dorset.

(1791-1867)



English scientist. In 1831, he discovered electromagnetic induction. This was a very important discovery for the future of science and technology.

Rontgen (1845-1923)



German physicist who

discovered X-rays in 1895. He was awarded many honours and won the Nobel Prize for physics in 1901.

Monique Simmonds



**Plants** Monique Simmonds is the

deputy director of science at the Royal Botanic Gardens, Kew. She researches traditional and commercial uses of plants and fungi. Her work involves her promoting plant and fungalbased solutions to global challenges.

## Light Justus von

Liebig

(1803-1873)

Justus von Liebig was a German chemist. In 1835 he developed a process for applying a thin layer of metallic silver to one side of a pane of clear glass. This technique was soon adapted and improved, allowing for the mass production of mirrors.

Animals Including Humans William Beaumont was a surgeon in the U.S. Army. He carried out lots of experiments and research on human digestion. As a result, he provided the world with new information about the digestive process in living human beings. Maggie (born 1968)

Earth and space Maggie is a British space Aderin-Pocock | scientist and science educator. She is working on the observation instruments for the Aeolus satellite, which will measure wind speeds to help the investigation of climate change.

William Beaumont

(1785-1853)

Electricity Peter Rawlinson is a British engineer based in California. He is working on the development of electric vehicles, providing clear vision for a next-

generation product.

Chris Nelson

them a two-part name. Chris Nelson is a horticulturist and a director of Growing Underground which uses hydroponic techniques to grow pesticide-free crops in a former London underground air-raid shelter.

Spencer Silver (born 1941) dropped, they will fall at

**Bernard Palissy** 

(1510-1590)

Spencer Silver is an American scientist who together with Arthur Fry was the inventor of Post-it notes in 1974. At the time, he was working to develop new classes of adhesives.

Materials

Bernard Palissy was a French

potter and scientist. He is

often credited as the man

who 'discovered' the modern

theory of the water cycle. He

asserted that rainfall alone

was sufficient for the

maintenance of rivers.

Materials

Humans

William Harvey was an

English physician and the

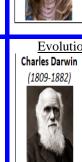
first person to correctly

describe blood's circulation

in the body. He showed that

arteries and veins form a

complete circuit.



Evolution and inheritance Charles Robert Darwin was born in Shrewsbury and was an English naturalist and biologist. His scientific theory of evolution by natural selection became the foundation of modern evolutionary studies.

Thomas Edison Thomas Edison was an (1847-1931)American inventor. He is sometimes described as America's greatest inventor. He invented the first practical incandescent light bulb.

Electricity

Animals including humans Sarah Fowler Sarah Fowler (OBE) is a

object.

Sound

Christian Doppler was an

Austrian mathematician and

physicist. He is celebrated

for his principle known as

the Doppler effect. This

different as you move

describes how noises sound

toward or away from a noisy

Christian Doppler

(1803-1853)



marine biologist. She is the principal scientist of the Save Our Seas Foundation. Her research has identified the global threat to sharks and she shares strategies of how we can protect them.

Habitats David Attenborough | Sir David is an English (born 1926) broadcaster and naturalist. He has made many famous wildlife programmes. He was knighted in 1985.

Light

Abu Ali al-Hasan Alhazan was an Iranian (Alhazen) mathematician, astronomer (965-1040) and physicist. He was the pioneer of modern optics. He carried out experiments with pinhole cameras and candles and explained how the image is formed by rays of light travelling in straight lines.

6

## Peter Rawlinson

## All living things and habitats Carl Linnaeus Carl Linnaeus was a Swedish (1707-1778)

All Living Things and Habitats

extiction.

Forces

Jane Goodall

(Born 1934)

Galileo Galilei

(1564-1642)

(1642-1726)

Jane Goodall is an expert on

wild chimpanzees. She is

breaking discoveries about

shown us the urgent need to

protect chimpanzees from

He was an Italian

the same rate.

scientist and

He was an English

He 'discovered' the

an apple fell to the

ground near him.

concept of gravity when

sitting under a tree and

mathematician.

He discovered that if

two objects of similar shape and size are

their behaviour. She has

known for her ground

scientist who developed the modern system of classifying and naming organisms. Before this the names of living things were often very long. He gave



(1578-1657)

William Harvey